

**Amendments to the Claims**

Please amend Claims 1, 7, 12 and 16. The Claim Listing below will replace all prior versions of the claims in the application:

**Claim Listing**

1. (Currently Amended) An aquatic food composition for consumption by anadromous fish in freshwater comprising a concentration of NaCl between about 10,000 mg/kg and about 100,000 mg/kg and a PVCR modulator in an amount sufficient to increase expression and/or sensitivity of at least one PVCR in the fish upon consumption of the composition.
2. (Previously Presented) The aquatic food composition of Claim 1, wherein the PVCR modulator is L-Tryptophan.
3. (Previously Presented) The aquatic food composition of Claim 2, wherein the L-Tryptophan is in an amount of between about 0.2% and about 0.4% by weight.
4. (Previously Presented) The aquatic food composition of Claim 2, wherein the L-Tryptophan is in an amount of about 0.2% by weight.
5. (Previously Presented) The aquatic food composition of Claim 2, wherein the L-Tryptophan is in an amount of between about 0.4% by weight.
6. (Previously presented) The aquatic food composition of Claim 1, wherein the NaCl is in a concentration of about 7% by weight.
7. (Currently amended) ~~The~~ An aquatic food composition of Claim 1, further comprising for consumption by anadromous fish in freshwater comprising a concentration of NaCl between about 10,000 mg/kg and about 100,000 mg/kg, a PVCR modulator in an amount

sufficient to increase expression and/or sensitivity of at least one PVCR in the fish upon consumption of the composition, and a top dressing that includes fish oil.

8. (Previously presented) The aquatic food composition of Claim 7, wherein the top dressing includes at least about 50% by weight of fish oil.
9. (Previously presented) The aquatic food composition of Claim 8, wherein the top dressing includes menhaden fish oil.
10. (Previously presented) The aquatic food composition of Claim 7, wherein the top dressing includes at least a portion of the PVCR modulator.
11. (Previously presented) The aquatic food composition of Claim 7, wherein the top dressing includes at least a portion of the NaCl.
12. (Currently Amended) An aquatic food composition for consumption by anadromous fish in freshwater comprising:  
NaCl in an amount of about 7% by weight; and  
L-Tryptophan in an amount of about 0.2% by weight;  
wherein the expression and/or sensitivity of at least one PVCR is increased in the fish upon consumption of the composition.
13. (Previously presented) The aquatic food composition of Claim 12, further comprising a top dressing that includes at least about 50% by weight of fish oil.
14. (Previously presented) The aquatic food composition of Claim 13, wherein the top dressing includes at least a portion of the L-Tryptophan.
15. (Previously presented) The aquatic food composition of Claim 13, wherein the top dressing includes at least a portion of the NaCl.

16. (Currently Amended) An aquatic food composition for consumption by anadromous fish in freshwater comprising:  
NaCl in an amount of about 7% by weight; and  
L-Tryptophan in an amount of about 0.4% by weight  
wherein the expression and/or sensitivity of at least one PVCR is increased in the fish upon consumption of the composition.
17. (Previously presented) The aquatic food composition of Claim 16, further comprising a top dressing that includes at least about 50% by weight of fish oil.
18. (Previously presented) The aquatic food composition of Claim 17, wherein the top dressing includes at least a portion of the L-Tryptophan.
19. (Previously presented) The aquatic food composition of Claim 17, wherein the top dressing includes at least a portion of the NaCl.